

p-Hydroxypropiophenone

Other names:

1-(4-hydroxyphenyl)-1-propanone
1-(4-hydroxyphenyl)propan-1-one
1-(p-Hydroxyphenyl)-1-Propanone
1-Propanone, 1-(4-hydroxyphenyl)-
4'-hydroxypropiophenone
4-Hydroxypropiophenon
4-Hydroxypropiophenone
4-Propanoylphenol
4-Propionylphenol
B 360
Bio-Fren
Ethyl p-hydroxyphenyl ketone
Frenantol
Frenohypon
Frenon
Frenormon
H-365
Hydroxypropiophenone
Hypophenon
Hypostat
Ibiopopp
Mepal
NSC-2834
P.O.P.
POP
Paroxon
Paroxypropion
Possipion
Possipione
Profenone
Propiophenone, 4'-hydroxy-
Proxiphenon
Sterofenon
USAF EK-3302
p-Hydroxyphenyl-1-propanone
p-Oxypropiophenone
p-Propionylphenol
p-Propiophenol
para-Hydroxypropiophenone

Inchi:

InChI=1S/C9H10O2/c1-2-9(11)7-3-5-8(10)6-4-7/h3-6,10H,2H2,1H3

InchiKey:

RARSHUDCJQSEFJ-UHFFFAOYSA-N

Formula:

C9H10O2

SMILES:

CCC(=O)c1ccc(O)cc1

Mol. weight [g/mol]:

150.18

Physical Properties

Property code	Value	Unit	Source
hf	-306.88	kJ/mol	Cheméo Relay (1.0)
hfus	20.49	kJ/mol	Joback Method
hvap	77.82	kJ/mol	Cheméo Relay (1.0)
ie	8.63	eV	Cheméo Relay (1.0)
log10ws	-1.68		Cheméo Relay (1.0)
logp	1.985		Crippen Method
mcvol	121.350	ml/mol	McGowan Method
tb	548.89	K	Cheméo Relay (1.0)
tc	763.89	K	Cheméo Relay (1.0)
tf	421.60	K	Thermochemistry of 4-HOC6H4COR (R = H, CH3, C2H5, n-C3H7, n-C4H9, n-C5H11, and n-C6H13) compounds

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.64	J/mol×K	566.49	Joback Method
cpg	293.13	J/mol×K	604.97	Joback Method
cpg	303.76	J/mol×K	643.44	Joback Method
cpg	313.62	J/mol×K	681.92	Joback Method
cpg	322.80	J/mol×K	720.40	Joback Method
cpg	331.37	J/mol×K	758.87	Joback Method
cpg	339.41	J/mol×K	797.35	Joback Method
dvisc	0.0017635	Pa×s	379.26	Joback Method
dvisc	0.0007989	Pa×s	410.47	Joback Method
dvisc	0.0004047	Pa×s	441.67	Joback Method
dvisc	0.0002243	Pa×s	472.88	Joback Method
dvisc	0.0001337	Pa×s	504.08	Joback Method
dvisc	0.0000847	Pa×s	535.29	Joback Method

Sources

Thermochemistry of 4-HOC ₆ H ₄ COR (R = H, CH ₃ , C ₂ H ₅ , n-C ₃ H ₇ , n-C ₄ H ₉ , n-C ₅ H ₁₁ , and n-C ₆ H ₁₃) compounds:	https://www.doi.org/10.1016/j.jct.2016.09.026
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C70702&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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